

Title (en)  
SENSOR INTERFACE CIRCUIT

Title (de)  
SENSORSCHNITTSTELLENSCHALTUNG

Title (fr)  
CIRCUIT D'INTERFACE DE CAPTEUR

Publication  
**EP 3647737 B1 20220803 (EN)**

Application  
**EP 18204290 A 20181105**

Priority  
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Abstract (en)  
[origin: EP3647737A1] The present invention relates to a sensor interface circuit (120) comprising- an input arranged to receive a sensor signal being an electrical signal representative of an electrical quantity, said electrical quantity being a physical quantity converted in a sensor,- conversion means (123) arranged for converting said sensor signal into a digital signal,- memory (125) to store sensor characterisation data,- signal processing means (128) adapted to obtain a first sensor result by processing said digital signal using said sensor characterisation data,- an output unit (122) arranged to receive and output said first sensor result, said digital signal and said sensor characterisation data. An external control unit (140) is arranged for verifying signals derived from a sensor signal received in the sensor interface circuit (120), the external control unit (140) being adapted- to receive from said sensor interface circuit (120) said first sensor result, said digital signal and said sensor characterisation data,- to determine a second sensor result by processing said digital signal using said sensor characterisation data in a signal processing means of said external control unit, and- to compare said first and said second sensor result.

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